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AMENDMENTS TO THE CLAIMS

1.-9. (cancelled)

10. (new) An apparatus for power control by phase gating of an AC voltage, which

supplies an electrical load, and for reduction of harmonics which are created by the phase

gating, in particular up to a region of 4 kHz, preferably in the region of the third harmonic,

having an electric motor as the load, having a first circuit element (TRIAC) which is

connected in series with the load and is driven by a control device in order to carry out

phase gating, and having a resistance element, wherein a second circuit element is

provided in series with the resistance element, with the series circuit being arranged in

parallel with the first circuit element and with the control device being designed such that it

drives the second circuit element shortly before the first circuit element and switches it to

the on state for a short time period and in that the resistance element is arranged in an air

flow which is produced by the electric motor in order to cool it.

11. (new) The apparatus as claimed in claim 10, wherein the resistance element has at

least two resistance segments which are arranged in series.

12. (new) The apparatus as claimed in claim 11, wherein the resistance segments are

arranged within the electric motor.

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13. (new) The apparatus as claimed in claim 10, wherein the resistance element is in the form of a resistance wire.

- 14. (new) The apparatus as claimed in claim 11, wherein each resistance segment is in the form of a resistance wire.
- 15. (new) The apparatus as claimed in claim 12, wherein each resistance segment is in the form of a resistance wire.
- 16. (new) The apparatus as claimed in claim 13, wherein the resistance wire is provided in the form of at least one turn on a winding of the electric motor.
- 17. (new) The apparatus as claimed in claim 10, wherein the second circuit element is a TRIAC.
- 18. (new) The apparatus as claimed in claim 10, wherein the resistance element is a non-reactive resistor.

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(new) The apparatus as claimed in claim 10, wherein said harmonics created by

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the phase gating and to be reduced by the apparatus comprise harmonics up to a region of

4 kHz.

19.

20. (new) The apparatus as claimed in claim 19, wherein said harmonics are in the

region of the third harmonic.

21. (new) A method for harmonic reduction in the range up to 4 kHz for power control

of an electric motor by phase gating, having the following steps:

- a first circuit element is driven on the basis of a first selected trigger angle in order

to carry out a phase gating process,

- a connection which bridges the first circuit element and has a resistance is switched

on briefly at a time before the triggering of the first circuit element, and

- the connection which has a resistance is cooled by the electric motor.
- 22. (new) The method of claim 21, wherein said harmonic reduction reduces the third

harmonic.